

Attorney Docket No.:       **IRD-0014**  
Inventors:                   **Odgaard et al.**  
Serial No.:                  **10/038,561**  
Filing Date:                **November 9, 2001**  
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This listing of the claims will replace all prior versions and listings of claims in the application:

**Listing of the claims:**

Claim 1: (original) A method of producing a membrane electrode assembly for use in direct methanol fuel cells comprising:

(a) serigraphically printing a cathode carbon backing layer onto graphite or carbon paper;

(b) boiling the printed cathode carbon backing layer and graphite or carbon paper;

(c) serigraphically printing a carbon cathode catalyst onto the boiled, printed carbon backing layer and graphite or carbon paper to produce a cathode layer;

(d) boiling the cathode layer;

(e) serigraphically printing an anode carbon backing layer on graphite or carbon papers;

(f) boiling the printed anode carbon backing layer and graphite or carbon paper;

(g) serigraphically printing a carbon anode catalyst onto the boiled, printed anode carbon backing layer and graphite or carbon paper to produce an anode layer;

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(h) boiling the anode layer;

(I) inserting a polymer electrolyte membrane between the boiled cathode layer and boiled anode layer and placing the membrane and cathode and anode layers into a constraint which restricts volume and lateral defamation; and

(j) semi-isostatically compressing the membrane and cathode and anode layers into a membrane electrode assembly.

Claim 2: (canceled)